

Nathaniel L. Bland

blandn@bu.edu | 860-501-1828 | [linkedin.com/in/natebland](https://www.linkedin.com/in/natebland) | <https://github.com/NatarBL>

Education Boston University
BA, Computer Science

December 2022

Work Experience eDOC Innovations – Web Developer

October 2022 – August 2023

- Fixed reported bugs helping to create a smooth user experience for millions of credit union clients.
- Implemented over 100 enhancements including improved web security utilizing AES encryption, providing new features highlighted in marketing, and refactoring legacy code to decrease load times.
- Familiarity with consuming RESTful interfaces and SQL databases.
- Led daily SCRUM discussions and provided unique solutions to issues discovered in CI/CD pipeline.

Software Projects

Corporate Documentation Website

January 2023

- Created website utilized by dozens of credit unions to access corporate documentation using Firebase.
- Managed user login credentials, permissions, and stored documentation as JSONs in Firebase's Database.
- Built a microservice in JavaScript to convert thousands of company markdown files to JSONs for convenient database storage and client-side stylization.
- Designed frontend using JavaScript, HTML, CSS, and PHP.

Amplitude Onset Detection Program

December 2021

- Built an amplitude onset detector using Python that imported audio files and scanned for unwanted amplitude spikes in spectral graphs.
- Eliminated exceeding audio spikes with an error percentage of 0.02% compared to the python public librosa library error percentage of 0.46% using a dataset of 175,000 frames across 100 audio files.

NFL Player Profile Website

June 2024

- Developed a comprehensive website to display player statistics from the 2023 NFL season.
- A player's profile includes basic knowledge along with weekly performance displayed on a line graph from the Charts.js library.
- The frontend uses React as a framework for the home page and player profiles and React-Router to create web pages based on selected player. The backend is written as a Flask app written in python that gathers data from a CSV which is then served to the frontend.

Relevant Skills

Languages: JavaScript, HTML/CSS, Java, Python, PHP, OCaml, C++

Frameworks: React, Node, Bootstrap, jQuery

Other: Git, JSON, OOP, REST APIs, Firebase, Visual Studios, MySQL, SCRUM, CI/CD, Algorithms, Data structures

Achievements

- Dean's list, 2018-2021
- Battalion S-1 for BU, BC, MIT, Harvard, Tufts NROTC (A leadership position in charge of organizing over 100 students across multiple universities), 2022
- Surface Warfare Club President, 2021
- Rocket Software Hackathon winner, 2019